

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027954

Luminaire Tested: S125DIP-B375D850UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027954
REPORT IS A COMBINATION OF REPORTS P1002100 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

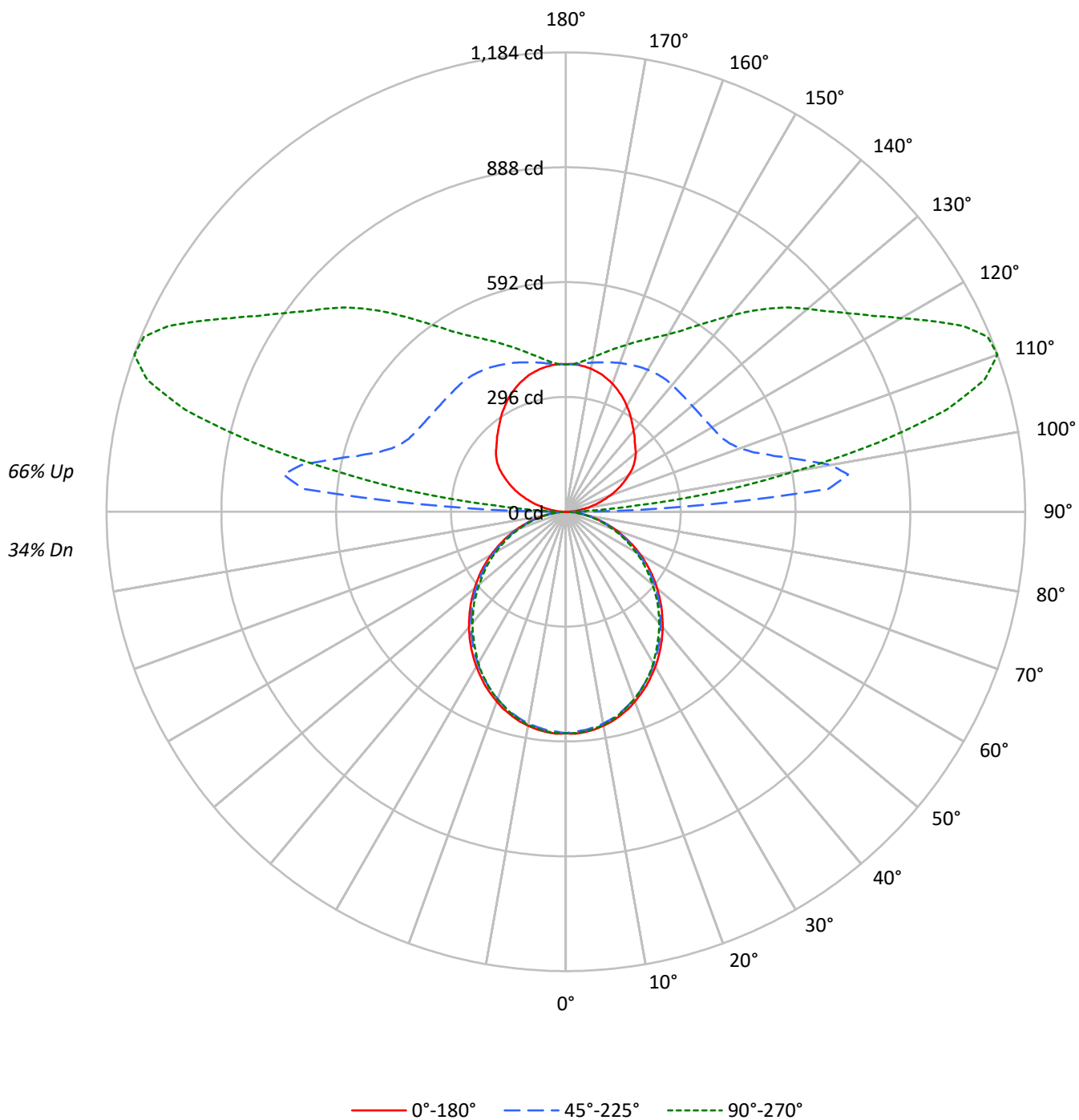
Lumens per Lamp: N/A
Luminaire Lumens: 4350.9 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	37	36	35
2	86	78	72	67	77	71	66	62	57	53	50	44	42	40	32	31	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	34	29	27	25
4	71	61	53	47	64	55	49	43	45	40	36	35	31	29	25	23	22
5	65	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	15
8	52	40	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3658	3573	3580
10°	3628	3491	3480
15°	3580	3393	3363
20°	3516	3280	3228
25°	3446	3156	3084
30°	3364	3026	2932
35°	3274	2891	2761
40°	3183	2748	2610
45°	3083	2609	2450
50°	2973	2451	2262
55°	2865	2276	2090
60°	2735	2092	1889
65°	2580	1879	1682
70°	2423	1635	1443
75°	2158	1346	1167
80°	1839	1005	859
85°	1418	595	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.2
10°-20°	152.2	3.5
20°-30°	224.7	5.2
30°-40°	262.1	6.0
40°-50°	263.3	6.1
50°-60°	231.1	5.3
60°-70°	172.1	4.0
70°-80°	98.3	2.3
80°-90°	29.9	0.7
90°-100°	286.5	6.6
100°-110°	595.1	13.7
110°-120°	555.8	12.8
120°-130°	449.8	10.3
130°-140°	361.4	8.3
140°-150°	272.8	6.3
150°-160°	192.1	4.4
160°-170°	113.2	2.6
170°-180°	36.8	0.8
0°-30°	430.7	9.9
0°-40°	692.8	15.9
0°-60°	1187.2	27.3
0°-90°	1487.5	34.2
90°-120°	1437.4	33.0
90°-150°	2521.3	57.9
90°-180°	2863.0	65.8
0°-180°	4350.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	565	569	568	54
15°	543	542	537	539	539	153
25°	493	491	485	486	485	227
35°	426	424	418	416	412	266
45°	349	347	342	336	335	269
55°	266	264	258	254	251	237
65°	179	178	173	169	168	178
75°	95	94	92	91	89	101
85°	25	25	25	25	24	27
90°	1	7	12	16	18	3
95°	25	75	680	308	180	26
105°	87	121	556	1095	1016	91
115°	155	187	446	962	1132	153
125°	215	252	428	766	892	191
135°	252	302	425	642	741	195
145°	293	336	426	531	584	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.9	570.9	570.9	570.9	570.9
2.5°	572.7	571.4	566.9	571.4	570.9
5°	570.0	569.1	564.6	568.7	568.2
7.5°	566.0	565.1	560.1	564.2	563.7
10°	560.1	559.2	554.2	557.8	557.4
12.5°	552.9	551.1	546.5	549.3	549.3
15°	543.4	542.0	537.1	539.3	539.3
17.5°	533.4	531.2	526.2	528.9	526.7
20°	520.3	519.4	513.6	516.7	514.5
22.5°	507.2	505.4	500.0	501.8	500.5
25°	493.2	491.0	485.1	486.0	484.7
27.5°	477.0	475.6	469.8	470.2	468.9
30°	461.2	459.8	453.0	452.1	450.8
32.5°	444.0	441.8	435.9	434.1	431.4
35°	425.9	424.1	417.8	415.6	411.9
37.5°	407.4	405.2	399.3	396.1	393.9
40°	388.5	386.2	379.9	375.8	374.4
42.5°	368.1	366.3	360.0	356.4	354.1
45°	348.7	346.9	341.5	336.1	334.7
47.5°	327.5	327.9	321.2	315.7	312.6
50°	307.1	305.8	300.4	294.5	291.3
52.5°	286.4	285.5	279.6	274.6	271.0
55°	265.6	264.2	257.9	253.8	250.7
57.5°	243.5	243.0	237.6	232.2	230.8
60°	222.7	220.9	215.9	211.4	208.2
62.5°	201.0	199.6	195.6	190.6	188.4
65°	179.3	178.4	173.4	169.4	167.6
67.5°	158.1	156.3	152.7	149.1	148.2
70°	138.2	136.0	131.9	129.2	127.4
72.5°	116.5	115.2	112.9	109.8	108.0
75°	95.3	94.4	92.1	90.8	89.0
77.5°	75.4	75.0	73.6	72.7	71.4
80°	56.9	56.9	56.0	55.6	54.7
82.5°	40.7	39.7	39.7	38.8	38.8
85°	24.8	25.3	25.3	24.8	23.9
87.5°	12.2	12.2	11.7	11.7	10.8
90°	0.8	6.9	12.3	16.1	17.6
92.5°	11.5	62.9	306.0	81.7	56.8
95°	25.3	74.8	679.6	308.4	180.2
97.5°	39.1	80.9	734.0	556.8	395.0
100°	53.7	92.8	692.6	787.0	598.3
102.5°	69.8	106.2	619.8	981.8	825.3
105°	86.7	121.2	556.1	1094.9	1016.3
107.5°	102.8	136.9	508.5	1126.8	1131.4
110°	120.4	153.4	477.1	1096.5	1183.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.1	169.9	458.7	1033.2	1177.4
115°	154.9	186.8	446.4	962.2	1132.1
117.5°	170.3	204.0	439.5	897.8	1063.9
120°	185.6	220.5	434.9	843.8	997.9
122.5°	201.7	236.6	431.1	800.3	939.6
125°	214.8	251.6	428.0	765.5	892.0
127.5°	225.5	266.2	426.5	735.6	848.3
130°	235.5	280.0	424.9	705.2	813.8
132.5°	243.1	292.2	424.9	672.7	779.3
135°	251.6	302.5	424.9	641.6	740.9
137.5°	262.3	312.2	425.7	609.0	701.1
140°	271.5	320.2	426.5	579.1	658.9
142.5°	282.3	327.9	427.2	553.4	619.8
145°	293.0	335.5	426.5	531.2	584.5
147.5°	304.5	342.4	424.9	512.0	553.0
150°	314.5	348.6	422.6	496.3	527.7
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)